

CLAIMS

1. An aerosol particle charging device comprising:

a chamber;

an inlet duct which flows gas including aerosol particles
5 to be processed into said chamber;

a outlet duct which exhausts the processed aerosols from
said chamber; and

an X-ray emitting section which is arranged facing said
chamber and emits an X-ray having a main wavelength within a
10 range of 0.13 nm to 2 nm.

2. An aerosol particle charging device according to
claim 1, wherein

said X-ray emitting section includes a power switch which
15 controls emission and stop of the X-ray.

3. An aerosol particle charging device comprising:

a chamber;

an X-ray emitting section which is arranged facing one
20 region of said chamber and emits an X-ray having a main
wavelength within a range of 0.13 nm to 2 nm;

an electric field generation section which includes
electrode plates arranged on both surfaces facing each other
of said chamber and generates an electric field from an
25 irradiating section to a non-irradiating section of the X-ray

within said chamber;

an inlet duct which is arranged in the X-ray non-irradiating section of said chamber and flows gas including aerosol particles to be processed into said chamber; and

5 a outlet duct which is arranged at a position facing said inlet duct of the X-ray non-irradiating section of said chamber and exhausts the processed aerosols from said chamber.

4. An aerosol particle charging device according to
10 claim 3, wherein

said X-ray emitting section includes a power switch which controls emission and stop of the X-ray.